CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/AP/W.No.12/CSR 11/184g/CEMENT/2016-17 Date: 05.11.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. A. Puttaraju,** #B, 48/5, Pipe line, B Cross, Bahubali Nagara, Jalahalli Village, Bangalore – 13.
*NAME OF THE WORK	:	Improvements to roads and drains at Nisarga Layout in Abbigere in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/SSD/PR/42/2016-17 Dated: 03.11.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	03.11.2016
PERIOD OF TESTING	:	03.11.2016 to 05.11.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part 3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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AE-12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿಬಿಎಂಪಿ, ಪಶ್ಚಿ. ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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VIDYARANI P.K.
Technical Manager

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Job No: CTCE/BBMP/AP/W.No.12/CSR-11/184g/SAND Gradation/2016-17 : 05.11.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Puttaraju,** #B, 48/5, Pipe line, B Cross, Bahubali Nagara, Jalahalli Village, Bangalore 13.
* Name of Work	: Improvements to roads and drains at Nisarga Layout in Abbigere in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/42/2016-17 Dated: 03.11.2016
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 03.11.2016
Date of Testing	: 05.11.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.40	90-100	90-100	90-100	95-100
2.36	75.20	60-95	75-100	85-100	95-100
1.18	53.80	30-70	55-90	75-100	90-100
600 Micron	24.30	15-34	35-59	60-79	80-100
300 Micron	10.30	5-20	8-30	12-40	15-50
150 Micron	2.80	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative.

Remarks : This sample is under Zone-I specific limits.

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AE-D

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

VIDYARANI P.K.
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Job No.: CTCE/BBMP/AP/W.No.12/CSR-11/184g/AGG/GR/2016-17 : 05.11.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Puttaraju,** #B, 48/5, Pipe line, B Cross, Bahubali Nagara, Jalahalli Village, Bangalore – 13.
* Name of Work	: Improvements to roads and drains at Nisarga Layout in Abbigere in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/42/2016-17 Dated: 03.11.2016
Technical Reference	: IS : 2386 Part 1 1963 RA 2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 03.11.2016
Date of Testing	: 05.11.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.10	95-100	85-100
20	35.30	30-70	0-20
10	11.80	10-35	0-5
4.75	3.40	0-5	-

* Information is furnished by the Customer/Representative

Civil-Tech Consultants & Engineers Bangalore

Remarks : This sample is under Graded specific limits.

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Vidya

VIDYARANI P.K.
Technical Manager

AE-12
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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/AP/W.No.12/STEEL/2016-17 14.11.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. A. Puttaraju,** #B, 48/5, Pipe line, B Cross, Bahubali Nagara, Jalahalli Village, Bangalore – 13.
Name of the Work	:	Improvements to roads and drains at Nisarga Layout in Abbigere in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/42/2016-17 Dated: 03.11.2016
Date of Test	:	14.11.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.40	O.K	O.K

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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